



Soils Section A and Soils Section B, Geotechnical Engineering and Sciences Branch, Engineering Division

888-835-5971

<https://www.nwo.usace.army.mil>

The Geotechnical Engineering and Sciences Branch of Omaha District's Engineering Division provides engineering consulting services for military and civil works projects.

Mission

The mission of the Geotechnical Engineering and Sciences Branch is to meet the engineering requirements of the Omaha District and the customers it serves by utilizing state-of-the-art engineering in a timely and cost-effective manner.

In-House Capabilities

Airfield Pavement Engineering

- o Airfield and special pavement design, review, and analyses
- o Construction oversight for critical aspects of pavement and foundation construction
- o Evaluation of asphalt and concrete mix designs
- o Inspection of airfield pavement distress conditions
- o Mass concrete placement and removal
- o Aggregate analysis for asphalt and concrete pavement

Foundation Engineering

- o Geotechnical site investigations and analyses for building foundations, pavements, utilities, hydraulic structures, bridges, and special structural features
- o Subgrade soil modification improvement methods and projects (design, specify and oversee)
- o Special studies to solve unique foundation, subgrade, and drainage challenges
- o Foundation design on expansive soils

Materials Engineering

- o Special-use engineering materials (paints, coatings, geosynthetics)
- o Natural materials investigations (cement, rip rap, aggregates, borrow sources)
- o Specialized geosynthetic lab testing (specify and evaluate)

Flood Damage Reduction Ecosystem Restoration Services

- o Earth dam and levee design and rehabilitation
- o Slope stability investigation and analysis
- o Slope erosion protection design
- o Borrow material source evaluations
- o Channel improvement projects
- o Bank stabilization
- o Wetlands development and/or mitigation, deep-and-shallow-water river habitat development and/or enhancement



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Dam/Levee Safety Services

- o Embankment and foundation evaluation
- o Monitoring system design, inspections, and structural evaluation
- o Instrumentation data management and evaluation
- o Emergency action plan development
- o Remotely operated vehicle/camera inspection services
- o Flood control works (dams and levees) inspection services

Hazardous, Toxic, and Radioactive Waste Services

- o Landfill cover and liner system design and review
- o Landfill gas extraction system design and review
- o Underground storage tank removals
- o Contaminated material excavation and disposal or treatment
- o Contaminated material stabilization/solidification
- o Barrier wall design
- o Collection trenches
- o Bioremediation
- o Wetlands design and phytoremediation



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